

U.S. DOT CROSSING INVENTORY FORM

DATA FILE STRUCTURE

AND

FIELD INPUT SPECIFICATIONS

FORMAT FOR FRA INVENTORY FIELDS

DATA ENTRY FIELD DESCRIPTION

INVENTORY FIELD ORDER

(Fields not in Form 6180.71 are for FRA Internal Use)

U.S. DOT CROSSING INVENTORY FORM
Format for FRA Inventory Fields – Data Entry Field Description
Inventory Field Order
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FIELD/FORM 6180.71 NO.		FIELD NAME	DESCRIPTION	SIZE/ TYPE	START(END) (For ASCII)		DEFINITIONS, VALID VALUES, RANGES, & COMMENTS (CURRENT/NEW FIELDS ARE TO BE PROVIDED. PREVIOUS FIELDS ARE SHOWN IN THIS TABLE FOR INFORMATION ONLY.) {CONVERSIONS – FRA INTERNAL USE}
1	B.	CROSSING	Crossing No.	7 C	1	(7)	Valid Crossing I.D. No. Must be 6 numeric characters followed by 1 alphabetic character.
2	D.	EFFDATE	Effective Date	6 C	8	(13)	Entered in form as MM/DD/YYYY (stored in EFFDATE field as YYMMDD) End date for the most current record is always '999999'. When the crossing is updated with a new record, the end date of the previous current record is set to one day before the effective date of the new current record.
3		EDATE	End Date	6 C	14	(19)	EDATE is stored as YYMMDD. 1=Changes in Existing Crossing Data 2=New Crossing 3=Closed Crossing or Abandoned
4	C.	REASON	Reason for Update	1 C		20	Use 2-character state code. Click here to go to Valid State FIPS Code .
5	I.2.	STATE	State	2 C	21	(22)	Use 4-character county code. Click here to go to Valid County FIPS Code
6	I.3.	CNTYCD	County	4 C	23	(26)	Use 2-character state code. Click here to go to Valid State FIPS Code
7		STATE2	State	2 C	27	(28)	Use 4-character city code. Click here to go to Valid City FIPS Code
8	I.12.	CITYCD	City	4 C	29	(32)	0 = In City 1=Near City
9	I.12.	NEAREST	In or Near City	1 C		33	Valid Railroad Code <u>For valid railroad codes, refer to current list of railroad codes provided by FRA Office of Safety</u>
10	I.1.	RAILROAD	Railroad Operating Company	4 C	34	(37)	Railroad Division Name or Blank
11	I.4.	RRDIV	RR Division	14 C	38	(51)	Railroad Subdivision or Blank
12	I.5.	RRSUBDIV	RR Subdivision	14 C	52	(65)	Any Alphanumeric Data or Blank
13	I.14.	HIGHWAY	Highway type and No.	7 C	66	(72)	Any Alphanumeric Data or Blank
14	I.13.	STREET	Street or Road Name	17 C	73	(89)	Any Alphanumeric Data or Blank
15	I.8.	RRID	RR I.D. No.	10 C	90	(99)	
16	I.9.	TTSTN	Nearest RR Timetable Station	6 C	100	(105)	Valid Timetable Station
17	I.6.	BRANCH	Branch or Line Name	15 C	106	(120)	Branch/Line Name or Blank

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18	I.7.	MILEPOST	RR Milepost	6 C	121	(126)	The first two spaces can be alphanumeric, and the next four spaces numeric. There is an implied decimal point after the first 4 characters.
19	I.22.	MAPREF	County Map Ref. No.	10 C	127	(136)	Any Alphanumeric Data or Blank 1=Pedestrian, 2=Private Vehicle, 3=Public Vehicle (The following is the key for the crossing type and position:
20	I.17	TYPEXING	Type of Crossing	1 C	137		11 - Pedestrian at grade 23 - Private RR over 12 - Pedestrian RR under 31 - Public at grade 13 - Pedestrian RR over 32 - Public RR under 21 - Private at grade 33 - Public RR over) 22 - Private RR under
21	I.18.	POSXING	Position of Crossing	1 C	138		1=At grade under 2=RR Under 3=RR over
22	I.27.A	PRVCAT	Private Xing Category	1 C	139		1=Farm 3=Recreational 2=Residential 4=Industrial 5=Commercial Current Values: 1=signs 3=no signs or signals 2=signals 4=both signs and signals
23	I.27.C.	PRVIND	Signs/ Signals	1 C	140		On Previous Version of Inventory Form: 8=Signs 9=Signals 0=None
24	I.27.C.	PRVSIGN	Signs-Specify	15 C	141	(155)	Any Alphanumeric Data (Reference Field 140, PRVSIGNL) 1. =Railroad 2. =State 3.=DOT 4. =Original FRA internal use.
25	A.	INIT	Initiating Agency	1 C	156		Note: 3 & 4 are for internal FRA use only. Coded field, which is used for batch identification during update: The first character is the last character of the year; The second-fourth characters are the day of the year, and the fifth-sixth characters are the sequence number.
26		BATCH	System coded Field	6 C	157	(162)	
27		USERCD		1 C	163		This field is not currently used
28		UPDATE		2 C	164	(165)	No Longer Used Previous: Coded date of update.

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29		LINK		5 C	166 (170)	Refer to field 105 (UPDATDAT)
						Not in use. Previous Value: 1.Used for High Speed Corridor. 2.This was the link identification code (LIC) from the rail network model for the line on which the crossing lies. The LIC is a five-digit code incorporating the alphabetical abbreviation of the owning railroad and a sequence number.
30	II.1.C.	DAYTHRU	Day Thru Train Movements	2 N	171 (172)	Refer to field 89 (HSCORRID) 0 to 99
31		DAYSWT	Switching	2 N	173 (174)	(Previous Values: 0 to 99) Not in New Form-field No Longer Maintained in Inventory-obsolete (Reference Field135, TOTALTRN, and Field 136 TOTALSWT)
32		NGHTTHRU	Night Thru Train Movements	2 N	175 (176)	(Previous Values: 0 to 99) Not in New Form-field No Longer Maintained in Inventory-obsolete (Reference Field 135, TOTALTRN)
33		NGHTSWT	Night Switching Movements	2 N	177 (178)	(Previous Values: 0 to 99) Not in New Form-field No Longer Maintained in Inventory-obsolete (Reference Field 135, TOTALTRN, and Field 136 TOTALSWT)
34	II.1.D.	LT1MOV	Less Than One Movement Per Day?	1 C	179	0 = At least one train per day 1= Less than one train per day
35	II.2.A.	MAXTTSPD	Maximum Timetable Speed	3 N	180 (182)	Enter a check if train frequency is less than one train per day. Values are 1 to 150
36	II.2.B	MINSPD	From Min:	3 N	183 (185)	Values are 1 to 150
37	II.2.B.	MAXSPD	To Max:	3 N	186 (188)	Values are 1 to 150
38	II.3.	MAINTRK	Main	1 N	189	Values are 0 to 9 for main track

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39	II.3.	OTHRTRK	Other	2 N	190	(191)	Values are 0 to 99 for other tracks
40	II.3.	OTHRDES	Specify	10 C	192	(201)	Description, if other tracks exist
41	II.4.	SEPIND	Does Another RR Operate a Separate Trk. (Y/N)?	1 C	202		1=Yes 2=No
42	II.4.	SEPRR	Specify	16 C	203	(218)	Up to 4 valid RR codes Code should not be repeated
43	II.5.	SAMEIND	Does Another RR Operate Over Your Trk. (Y/N)?	1 C	219		1=Yes 2=No
44	II.5	SAMERR	Specify	16 C	220	(235)	Up to 4 valid RR codes Code should not be repeated
45		WDCODE	Warning Device Code	1 C	236	Highway warning device class at crossing.	
						<u>New Values:</u> 1 - No signs or signals 6 - Highway traffic signals, 2 - Other signs or wigwags, bells, or other 	

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
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47	XBUCKNRF	Crossbucks- Non- reflectorized	1 N	238	(Previous Values: 0 to 9) Not in New Form-field No Longer Maintained in Inventory-obsolete (Reference Field 138, XBUCK)
48	III.2.B. STOPSTD	Highway Stop Signs	1 N	239	0 to 9 9 represents 9 or more Previous Values: (0 to 9, 9 represents 9 or more) Not in New Form-field No Longer Maintained in Inventory-obsolete Conversion: If at least one of the two “Other Signs: Specify” field sets (OTHSGN1 and OTHDES1, or OTHSGN2 and OTHDES2) are blank, the value for STOPOTH (Other Stop Sign) was placed in the blank OTHSGN1 (or OTHSGN2) field, and “OTHRSTPSGN” was entered in the corresponding OTHDES1 (or OTHDES2) field.
49	STOPOTH	Other Stop Sign	1 N	240	
50	III.2.F. OTHSGN1	Other Signs:	1 N	241	0 to 9 9 represents 9 or more
51	III.2.F. OTHDES1	Specify:	10 C	242 (251)	Any Alphanumeric Description
52	III.2.F. OTHSGN2	Other Signs:	1 N	252	0 to 9 9 represents 9 or more
53	III.2.F. OTHDES2	Specify:	10 C	253 (262)	Any Alphanumeric Description
54	GATERW	Gates-Red & White	1 N	263	Previous Values: 0 to 9 (9 represents 9 or more) Not in New Form-field No Longer Maintained in Inventory-obsolete (Reference Field 139, GATES)
55	GATEOTH	Gates-Other	1 N	264	(Previous Values: 0 to 9, (9 represents 9 or more) Not in New Form-field No Longer Maintained in Inventory-obsolete (Reference Field 139, GATES)
56	III.3.C. FLASHOV	Canti-levered (or bridged) Flashing Lights- Over Traffic Lane	1 N	265	0 to 9 9 represents 9 or more

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
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57	III.3.C.	FLASHNOV	Canti- levered (or bridged) Flashing Lights- Not Over Traffic	1 N	266	0 to 9 9 represents 9 or more
58	III.3.D.	FLASHMAS	Mast Mounted Flashing Lights:	1 N	267	0 to 9 9 represents 9 or more
59	III.3.F.	FLASHOTH	Other Flashing Lights:	1 N	268	0 to 9 9 represents 9 or more
60	III.3.F.	FLASHDES	Specify:	9 C	269 (277)	Any Alphanumeric Description
61	III.3.G.	HWYSGNL	Hwy. Traffic. Signals	1 N	278	0 to 9 9 represents 9 or more
62	III.3.H.	WIGWAGS	Wigwags	1 N	279	0 to 9 9 represents 9 or more
63	III.3.J.	BELLS	Bells	1 N	280	0 to 9 9 represents 9 or more
64	III.4.	SPECPRO	Specify Warning Device:	20 C	281 (300)	Description of Non-train Activated Device
65	III.1.	NOSIGNS	No Signs or Signals	1 C	301	Enter a check if no signs or signals are present. 1=No signs or signals 0=At least one sign or signal
66	IV.10.	COMPOWER	Commercial Power Available (Y/N)? Signaling for Train	1 C	302	1=Yes 2=No
67	III.7.	SGNLEQP	Operation: Is Track Equipped with Train Signals	1 C	303	1=Yes 2=No
68	III.6.	SPSEL	Train Detection	1 C	304	New Values: 1= Constant Warning Time 2= Motion Detectors 3=DC/AFO 4=other 5=none
						(Previous Values: 1=Yes 2=No, 3=N/A)

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						<p>Conversion:</p> <p>Yes (1) CWT (1) No (2)-> DC/AFO(3) N/A (3)-> None (5)</p> <p>(Previous: Does Xing Signal Provide Speed Selection for Trains?)</p>
69	IV.1.	DEVELTYP	Type of Development	1 C	305	<p>Values are 1 to 5</p> <p>1=Open Space 2=Residential 3=Commercial 4=Industrial 5=Institutional</p>
70	IV.5	HWYPVED	Is Highway Paved?	1 C	306	<p>1=Yes 2=No</p>
71	IV.7.	DOWNST	Does Track Run Down a Street (Y/N)?	1 C	307	<p>1=Yes 2=No</p>
72	III.2.E.	PAVEMRK	Pavement Markings:	1 C	308	<p>Values are 1 to 4</p> <p>1=Stop lines, 2=RR Xing Symbols, 3=No Markings 4=Stop lines and RR Xing Symbols</p> <p>New Values:</p> <p>1=Less than 75ft 3=200 to 500 ft 2=75 to 200ft 4=N/A</p>
73	IV.8.	HWYNEAR	Nearby Intersecting Highway?	1 C	309	<p>Previous Values: 1=Yes 2=No</p> <p>Conversion:</p> <p>Yes >Less than 75 ft. No >N/A</p> <p>(See Field 152, HWYNRSIG)</p>
74	III.2.C.	ADVWARN	RR Advance Warning Signs	1 C	310	<p>1=Yes 2=No</p>
75	IV.2.	XANGLE	Smallest Crossing Angle	1 C	311	<p>1 to 3 (measurement is in degrees)</p> <p>1=0-29 2=30-59 3=60-90</p>

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76	IV.6.	SURFACE	Crossing Surface:	1 C	312	Conversion:	
						New	Old
						1. Timber	1. Sectional Treated Timber
						2. Asphalt	2.Full Wood Plank
						3. Asphalt & Flange	3.Asphalt
						4. Concrete	4.Concrete Slab
						5. Concrete and Rubber	5.Concrete Pavement
						6. Rubber	6.Rubber
						7. Metal	7.Metal Sections
						8. Unconsolidated	8.Other Metal
9. Other (Specify)	9.Unconsolidated						
		0.Other (Specify)					
		(See Field 151, XSUROTHR)					
77	IV.3.	TRAFICLN	No. of Traffic Lanes Crossing RR:	1 C	313	Values are 1 to 9	
78	IV.4.	TRUCKLN	Are Truck Pullout Lanes Present (Y/N)?	1 C	314	1=Yes	2=No
79	V.2.	STHWY1	Is crossing on State Highway System (Y/N)?	1 C	315	1=Yes	2=No
80	V.1.	HWYSYS	Highway System:	2 C	316	(317)	01=Interstate National Highway System 02=Other National Highway System 03=Other Federal-Aid Highway-Not NHS 08=Non Federal-Aid (NHS=National Highway System)
81	V.3.	HWYCLASS	Functional Classification of Road at Crossing:	2 C	318	(319)	01, 02, 06, 07, 08, 09, 11, 12, 14, 16, 17, 19 01=R. Interstate, 02=R. Oth. Prin. Arterial, 06=R. Minor Arterial, 07=R. Major Collector, 08=R. Minor Collector, 09=R. Local, 11=U. Interstate, 12=U. Oth. Freeway and Expressway, 14=U. Oth. Prin. Arterial, 16=U. Minor Arterial, 17=U. Collector, 19=U. Local [R=Rural, U=Urban]
82	V.5.	AADT	AADT	6 C	320	(325)	000001 – 999999 Annual Average Daily Traffic (AADT)
83	V.6.	PCTTRUK	Estimate Percent Trucks:	2 C	326	(327)	00 – 99 Estimate of % of Trucks
84	I.23.	LATITUDE	Latitude	10 7 N	328	(337)	Grade crossing latitudinal coordinate, from the center of the crossing.
85	I.24.	LONGITUD	Longitude	11 7 N	338	(348)	Grade crossing longitudinal coordinate, from the center of the crossing.

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86	I.25.	LLSOURCE	Lat/Long Source	1 C	349	1 = actual 2=estimated Blank=neither New values: 0 = not interconnected 1 = simultaneous preemption	3. Federal Actual 4. Federal Derived –[For FRA Internal Use] 2 = advance preemption 9 = n/a
87	III.8.	INTRPRMP	Interconnection / Pre-emption	1 C	350	Previous values: 0 = not interconnected 1 = interconnected Conversion: 1. (Interconnected)->1(simultaneous pre.) 2. (simulta. Pre.)->1(simultaneous pre.) 3. (adv.pre.)->2(adv pre.)	2 = simultaneous preemption 3 = advance preemption 9 = n/a)
88	III.2.D.	HUMPSIGN	Hump Signs	1 C	351	1=Yes 2=No 3=Unknown Is Hump crossing sign is installed?	
89	I.21.	HSCORRID	[High Speed] Corridor ID Code	2 C	352 (353)	Code must be in High Speed Corridor Table (obtain from FRA)	
90		DOTACPD		8 6 N	354 (361)	DOT Accident Prediction Value	
91		ACPDDATE		8 DATE	362 (369)	Indicates when DOT ACPD was generated.	
92		ACCCNT1		2 N	370 (371)	Accident history – current complete year	
93		ACCCNT2		2 N	372 (373)	Accident history – prior year	
94		ACCCNT3		2 N	374 (375)	Accident history – two years prior	
95		ACCCNT4		2 N	376 (377)	Accident history – three years prior	
96		ACCCNT5		2 N	378 (379)	Accident history – four years prior	
97		HISTDATE		8 DATE	380 (387)	Indicates when ACCCNT1- ACCCNT5 were generated	
98	V.7.	SCHLBUS	Avg. No of School Buses Passing Over the Crossing on a School Day	3 N	388 (390)	Value must be 0 through 999	

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99	I.16	WHISTBAN	New: Whistle Ban (Quiet Zone)	1 C	391		Valid values: 0=no 1=24 hour 2=partial 9=unknown
100	I.19	PASSCD	Type of Passenger Service	1 C	392		Valid values: A = AMTRAK operates over crossing B = AMTRAK and other passenger train operates over crossing C = Other passenger train operates over crossing including Seasonal D = None
101	I.20	PASSCNT	Avg Passenger Train Count Per Day	3 N	393	(395)	Value must be 0 through 999. [Cannot exceed the total train movements]
102	I.10	RRMAIN	Parent RR	4 C	396	(399)	Valid Railroad Code
103	I.11	XINGOWNR	Crossing Owner	4 C	400	(403)	Valid Railroad or Company Code
104		SOURCE		1 C	404		This field will indicate the source of the last update. Valid values: H = other hard copy I = inventory form M = other magnetic media P = mass-update printout T = magnetic tape X = GX O = foreign files
105		UPDATDAT		8 DATE	405	(412)	This field will contain the date that the last update to the record was posted.
106		LONGBDAT		8 DATE	413	(420)	This field will contain the same date as the field EFFDATE, in this file, except that the year will be four characters in this data element.
107		LONGEDAT		8 DATE	421	(428)	This field will contain the same date as the field EDATE, in this file, except that the year will be four characters in this data element
108	III.3.B.	FOURQUAD	Four-quadrant gates present	1 C	429		1=Yes 2=No
109		TWOQUAD	Two-quadrant gates present	1 C	430		NOT USED IN NEW FORM
110	I.27.B.	OPENPUB	Private Crossing-Public Access	1 C	431		1=Yes 2=No Blank=Unknown
111	I.28.A.	RRNARR1	Railroad Use	20 C	432	(451)	These fields will contain whatever the railroad desires to enter.
112	I.28.B.	RRNARR2	Railroad Use	20 C	452	(471)	
113	I.28.C.	RRNARR3	Railroad Use	20 C	472	(491)	

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114	I.28.D.	RRNARR4	Railroad Use	20 C	492	(511)	These fields will contain whatever the State desires to enter.
115	I.29.A.	STNARR1	State Use	20 C	512	(531)	
116	I.29.B.	STNARR2	State Use	20 C	532	(551)	
117	I.29.C.	STNARR3	State Use	20 C	552	(571)	
118	I.29.D.	STNARR4	State Use	20 C	572	(591)	
119	V.5	AADTYEAR	Year for AADT	4 C	592	(595)	This field will contain the year of the last AADT update.
120		AADTCALC		1 C	596		Not used.
121		TRAINDAT		4 C	597	600	Not currently used. Was to contain the year of the last trains update.
122		TRAINCAL		1 C	601		Not used. (This field was to identify how the last trains update was calculated: 1 = actual 2 = estimated Blank = neither)
123	III.9	RESERVE1	Reserved for Future Use	1 C	602		
124	III.10	RESERVE2	Reserved for Future Use	3 C	603	(605)	Reserved for future use. (RESERVE1 is 1 C. RESERVE2, RESERVE3, RESERVE4, and RESERVE5 are 3 C each.)
125	III.11	RESERVE3	Reserved for Future Use	3 C	606	(608)	
126	III.12	RESERVE4	Reserved for Future Use	3 C	609	(611)	
127	IV.11	RESERVE5	Reserved for Future Use	3 C	612	(614)	
128		DOTCASPD		8 6 N	615	(622)	DOT Predicted Casualty Rate
129		DOTFATPD		8 6 N	623	630)	DOT Predicted Fatality Rate
130		FUNCCAT		1 C	631		Not Used.

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131	I.32.	RRCONT	Railroad Contact	10 C	632	(641)	This field contains the telephone number of the railroad contact associated with the crossing.
132	I.33.	HWYCONT	State Contact	10 C	642	(651)	This field contains the telephone number of the State highway contact associated with the crossing.
133	I.31.	POLCONT	Emergency Contact	10 C	652	(661)	This field contains the telephone number of the emergency contact associated with the crossing. Normally, this will be the ENS telephone number posted at the crossing or along the railroad branch line.
134	I.30.	NARR	Narrative	100 C	662	(761)	No editing will be done on this field
135	II.1.A.	TOTALTRN	Total Trains	3 N	762	(764)	0-500 Conversion: TOTALTRN = (DAYTHRU + DAYSWT + NGHTTHRU + NGHTSWT)
136	II.1.B.	TOTALSWT	Total Switching Trains	3 N	765	(767)	0-500 Conversion: TOTALSWT = DAYSWT + NGHTSWT
137	I.15.	ENSSIGN	ENS Sign	1 C	768		1 = Yes 2 = No
138	III.2.A.	XBUCK	Crossbucks	2 N	769	(770)	Conversion: XBUCK = XBUCKRF + XBUCKNRF
139	III.3.A.	GATES	Gates	2 N	771	(772)	Conversion: GATES = GATERW + GATEOTH
140	I.27.C.	PRVSIGNL	Signals -Specify	15 C	773	(787)	Conversion: If PRVIND = 2 then previous PRVSIGN value will be moved to PRVSGNL. (Refer to field 24 (PRVSIGN))
141	III.3.E.	FLASHPAI	Number of flashing light pairs	2 N	788	(789)	This field contains the number of flashing light pairs.
142	III.3.K.	WARNACTO	Other Train Activated Warning Devices	9 C	790	(798)	This field contains other train activated warning devices.
143	III.5.	CHANNEL	Channelization Devices with Gates	1 C	799		1=All Approaches 2=One Approach 3=None
144	I.26.	XINGADJ	Adjacent Xing with separate no.?	1 C	800		1=Yes 2=No


 Indicates links, changes, or new data

U.S. DOT CROSSING INVENTORY FORM
Format for FRA Inventory Fields – Data Entry Field Description
Inventory Field Order
(Fields not in Form 6180.71 are for FRA Internal Use)

FIELD/FORM 6180.71 NO.		FIELD NAME	DESCRIPTION	SIZE/ TYPE	START(END) (For ASCII)		DEFINITIONS, VALID VALUES, RANGES, & COMMENTS (CURRENT/NEW FIELDS ARE TO BE PROVIDED. PREVIOUS FIELDS ARE SHOWN IN THIS TABLE FOR INFORMATION ONLY.) {CONVERSIONS – FRA INTERNAL USE}
145	I.26.	XNGADJNO	Adjacent Xing with separate no.? Provide no.	7 C	801	(807)	Valid crossing number
146	IV.9.	ILLUMINA	Is Xing Illuminated?	1 C	808		1=Yes 2=No
147	V.4.	HWYSPEED	Posted Hwy Speed	3 N	809	(811)	This field contains the posted highway speed.
148		CNTYNAM	County	20 C	812	(831)	Valid County Name
149		TTSTNNAM	Nearest RR Timetable Station	25 C	832	(856)	Valid Timetable Station name
150		CITYNAM	City	20 C	857	(876)	Valid City Name
151	IV.6.	XSUROTHR	Crossing Surface: 9. Other	20 C	877	(896)	Specify Other Crossing Surface
152	IV.8.	HWYNRSIG	Nearby Intersecting Highway? Is it signalized?	1 C	897		1=Yes 2=No

Note: Data file submissions, must, at a minimum, contain the following data fields:

Initiating Agency (INIT),
Crossing Number (CROSSING),
Reason for Update (REASON),
Effective Date (EFFDATE),
State (FIPS Code) (STATE),
County (FIPS Code) (CNTYCD),
Railroad (RAILROAD),
Type of Crossing (TYPEXING),
Position of Crossing (POSXING),
and the updated data fields

 Indicates links, changes, or new data